

PMP40347 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	470uF	16SEPC470M+T	Panasonic	CAP, Aluminum Polymer, 470 μ F, 16 V, +/- 20%, 0.01 ohm, TH	D10xL13mm
C2, C3, C30, C34	4	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 μ F, 25 V, +/- 20%, X5R, 1206_190	1206_190
C4	1	470pF	06035A471JAT2A	AVX	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C5	1	330pF	GRM31A5C2J331JW01D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C6, C13	2	330uF	EEU-FR1E331B	Panasonic	CAP, AL, 330 μ F, 25 V, +/- 20%, TH	D8xL13
C7	1	330uF	25SEPF330M	Panasonic	CAP, Aluminum Polymer, 330 μ F, 25 V, +/- 20%, 0.014 ohm, TH	D10xL13mm
C8	1	220uF	860020373010	Würth Electronics Inc.	CAP, AL, 220 μ F, 16 V, +/- 20%, TH	Radial, Can
C9, C11, C17, C18	4	22uF	860241378003	Würth Elektronik	CAP, AL, 22 μ F, 400 V, +/- 20%, TH	D13xL20mm
C10, C15	2	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C21	1	33uF	UVR1E220MDD6TP	Nichicon	CAP, AL, 33 μ F, 25 V, +/- 20%, TH	D5xL11mm
C22	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
C23	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 μ F, 50 V, +/- 10%, X7R, 0603	0603
C24, C32, C33	3	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X5R, 0603	0603
C25	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C26	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 μ F, 10 V, +/- 20%, X5R, 0603	0603
C27	1	0.01uF	C1608NP01H103J080AA	TDK	CAP, CERM, 0.01 μ F, 50 V, +/- 5%, C0G/NP0, 0603	0603
C28	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C29	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C14	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0603	0603
C31	1	2200pF	DE1E3RA222MA4BP01F	MuRata	CAP, CERM, 2200 pF, 500 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
D1	1	100V	MURA210T3G	ON Semiconductor	DIODE GEN PURP 100V 2A SMA	DO-214AC, SMA
D2	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D3, D5, D6, D7, D8, D10, D11, D12	8	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
D4	1	150V	SK215ATR	SMC Diode Solutions	Diode, Schottky, 150 V, 2 A, SMA	SMA
D9	1	45pF	ES3C-13-F	Diodes	DIODE GEN PURP 150V 3A SMC	
D13	1	1000V	RS1M-13-F	Diodes Inc.	Diode, P-N, 1000 V, 1 A, SMA	SMA
D15	1	15V	MMSZ4702T1G	ON Semiconductor	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D16	1	400V	P6KE400A	Fairchild Semiconductor	Diode, TVS, Uni, 400 V, 482 Vc, DO-15	DO-15
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm
L1	1	220uH	7447462221	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 220 μ H, 0.5 A, 0.96 ohm, TH	D6 x 8.5mm
L2	1	10uH	XAL4040-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 μ H, 3 A, 0.084 ohm, SMD	4.0x4.1x4.0mm
L4	1		7447462010	Würth Electronics Inc.	FIXED IND 1UH 8.5A 15 MOHM TH	Radial
L6	1	22uH	78438335220	Würth Elektronik	Inductor, Shielded, Powdered Iron, 22 μ H, 0.6 A, 1.04 ohm, AEC-Q200 Grade 1, SMD	SMD, 2-Leads, Body 3x3mm
Q1	1	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q2, Q4	2		STD2HMK60Z-1	STMicroelectronics	MOSFET N-CH 600V 2A IPAK	TO-251-3 Short Leads, IPak, TO-251AA
R1, R11, R22, R25	4	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, 1206	1206

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R2, R3, R15, R20, R23, R27, R28, R46	8	240k	CRCW1206240KJNEA	Vishay-Dale	RES, 240 k, 5%, 0.25 W, 1206	1206
R4	1	1.50Meg	CRCW06031M50FKEA	Vishay-Dale	RES, 1.50 M, 1%, 0.1 W, 0603	0603
R5	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R6, R7	2	51.0	RC1206FR-0751RL	Yageo America	RES, 51.0, 1%, 0.25 W, 1206	1206
R8	1	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R9, R29	2	1.10k	CRCW12061K10FKEA	Vishay-Dale	RES, 1.10 k, 1%, 0.25 W, 1206	1206
R12, R13	2	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, 0805	0805
R16, R31, R32, R33, R41, R44	6	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R18	1	560	CRCW0603560RJNEA	Vishay-Dale	RES, 560, 5%, 0.1 W, 0603	0603
R19, R49	2	51.0k	RC0603FR-0751KL	Yageo America	RES, 51.0 k, 1%, 0.1 W, 0603	0603
R21, R45	2	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, 0603	0603
R24, R35	2	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R34	1	75	CRCW080575R0JNEA	Vishay-Dale	RES, 75, 5%, 0.125 W, 0805	0805
R36, R37	2	2.20	ERJ-6RQF2R2V	Panasonic	RES, 2.20, 1%, 0.125 W, 0805	0805
R38	1	1.60k	RC0603FR-071K6L	Yageo America	RES, 1.60 k, 1%, 0.1 W, 0603	0603
R39	1	3.0k	CRCW12063K00JNEA	Vishay-Dale	RES, 3.0 k, 5%, 0.25 W, 1206	1206
R40	1	5.1k	RC0805FR-075K1L	Yageo	RES, 5.1 k, 1%, 0.125 W, 0805	0805 (2012 Metric)
R42	1	470	RC0603FR-07470RL	Yageo America	RES, 470, 1%, 0.1 W, 0603	0603
R43	1	56.0K		Yageo America	RES, 56.0k, 1%, 0.1 W, 0603	0603
R47	1	160k	CRCW1206160KJNEA	Vishay-Dale	RES, 160 k, 5%, 0.25 W, 1206	1206
R48	1	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, 1206	1206
RF1, RF2, RF3	3	4.7	FKN1WSJR-52-4R7	Yageo America	RES, 4.7, 5%, 1 W, Axial resistor	Axial resistor
T2	1		7503433972	Würth Elektronik	Transformer, Flyback	EE20
U1	1		LP2992AIM5-5.0/NOPB	Texas Instruments	Micropower 250 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23	MF05A
U3, U7	2		TPS560430XFDBVR	Texas Instruments	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-6)	DBV0006A
U4	1		LTV-817S	Lite-On	Optocoupler, 5 kV, 50-600% CTR, SMT	DIP-4 SMT
U5	1		TL431AIDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U6	1		UCC28600D	Texas Instruments	Quasi-Resonant Flyback Green-Mode Controller with Current Control, 99 % Duty Cycle, -40 to +105 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
R10	0	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R26	0	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
RV1, RV2, RV3	0	470V	Used in BOM report	Used in BOM report	Varistor, xxxVAC, xxVDC, xxJ, [Diameter], [Package]	Used in PnP output and some BOM reports
C12	0	2200pF	DE1E3RA222MA4BP01F	MuRata	CAP, CERM, 2200 pF, 500 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
TP1, TP2, TP3, TP4	0		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
L3	0	4.7mH	EEH99BNP-472-NB	GCI Technologies	Coupled inductor, 4.7 mH	

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